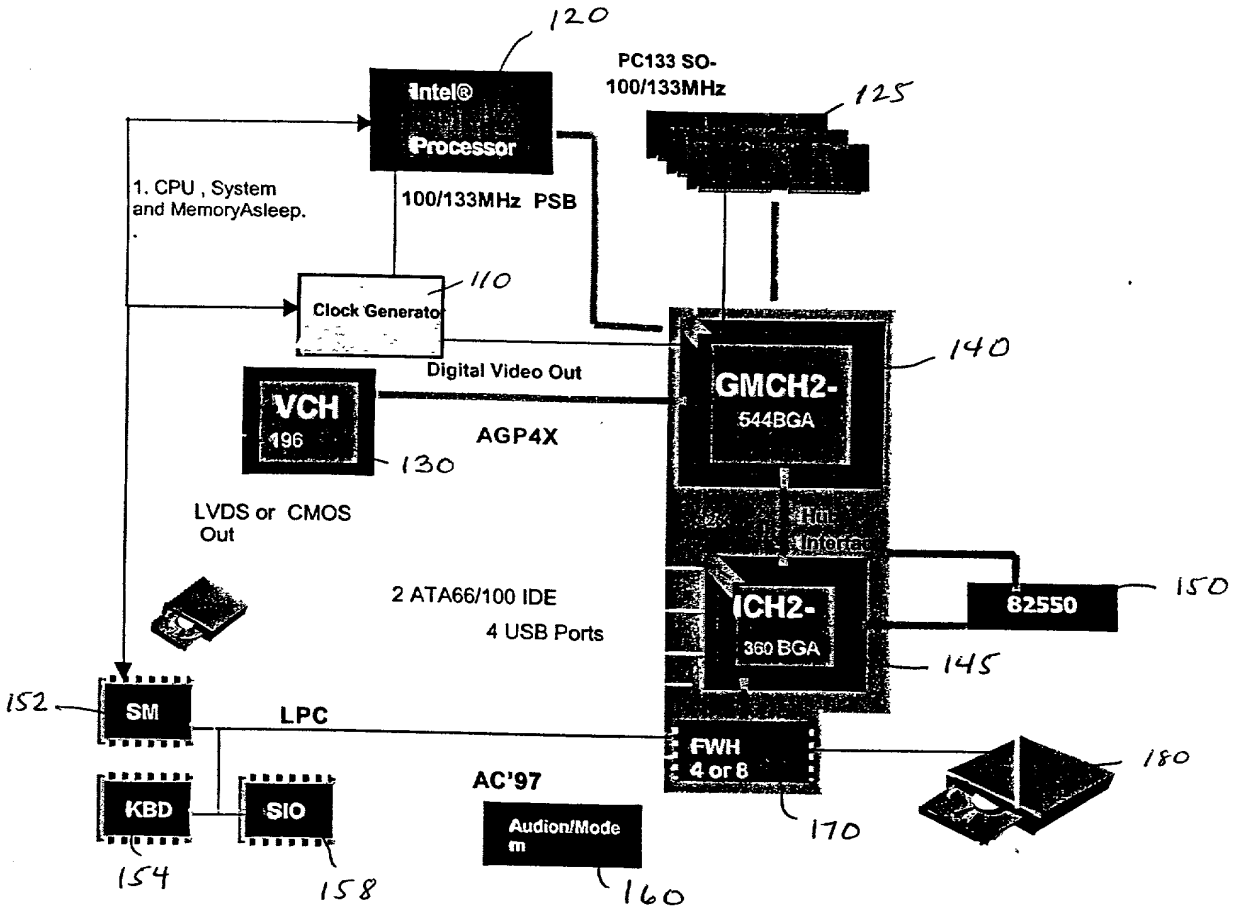
120
Intel®
Processor
PC133 SO-
100/133MHz
125
1. CPU , System
and MemoryAsleep.
100/133MHz PSB
110
Clock Generato
Digital Video Out
140
GMCH2-
544BGA
VCH
196
130
AGP4X
LVDS or CMOS
Out
2 ATA66/100 IDE
4 USB Ports
ICH2-
360 BGA
82550
150
145
152
SM
LPC
FWH
4 or 8
180
170
KBD
SIO
AC'97
Audion/Mode
m
154
158
160

Figure1

200

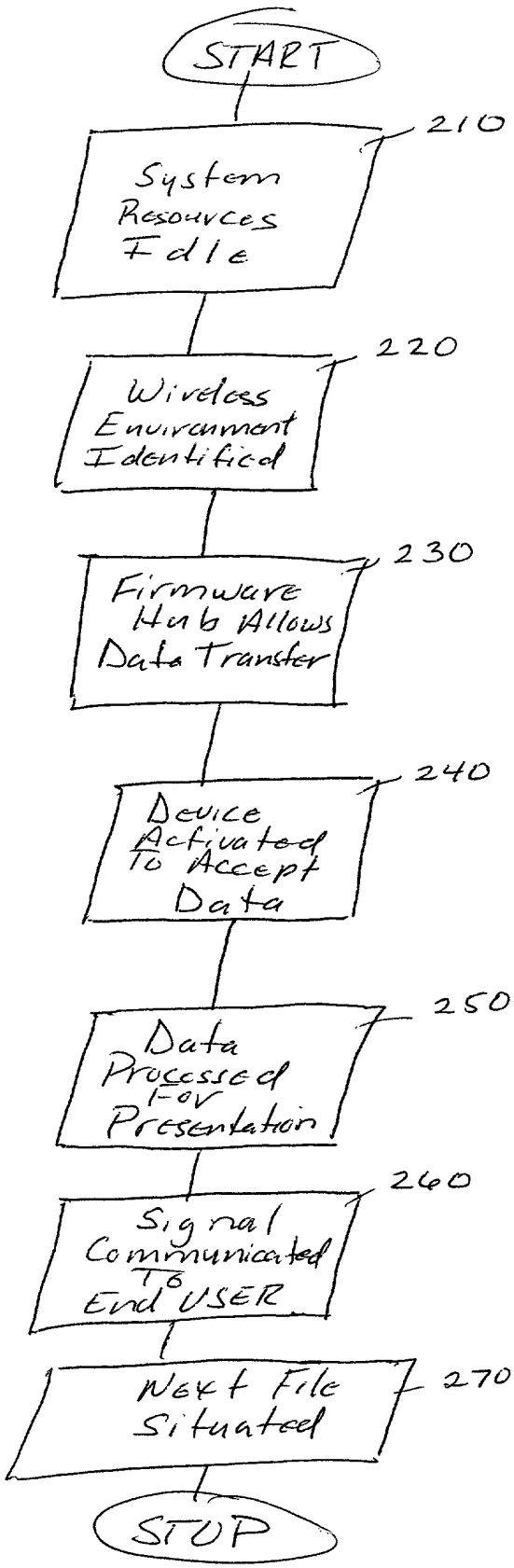
START
System Resources Idle
210
Wireless Environment Identified
220
Firmware Hub Allows Data Transfer
230
Device Activated To Accept Data
240
Data Processed For Presentation
250
Signal Communicated To End USER
260
Next File Situated
270
STOP

Figure 2

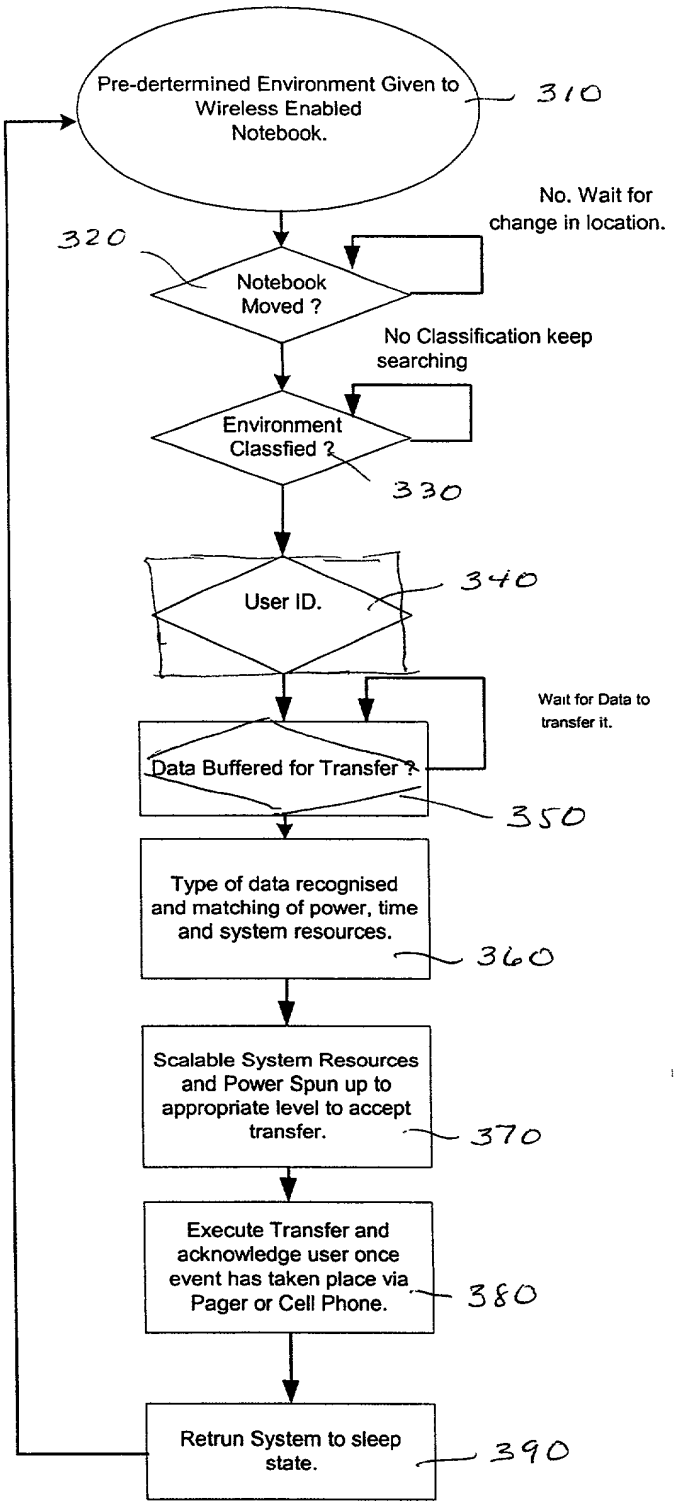
Pre-dertermined Environment Given to Wireless Enabled Notebook.
310
No. Wait for change in location.
320
Notebook Moved ?
No Classification keep searching
Environment Classfied ?
330
User ID.
340
Wait for Data to transfer it.
Data Buffered for Transfer ?
350
Type of data recognised and matching of power, time and system resources.
360
Scalable System Resources and Power Spun up to appropriate level to accept transfer.
370
Execute Transfer and acknowledge user once event has taken place via Pager or Cell Phone.
380
Retrun System to sleep state.
390

Figure 3

Environments ID Descriptor	Descriptions	Transfer Mechanism	Transfer Capabilities Data Rate vs. Data Transfer Classification
OOO1	Airport Terminal	Bluetooth	720kbpsecond.
OO10	Airport Terminal	Bluetooth	1.4Mbpsecond.
O011	Hotel Lobby	802.11b	11Mbps.
O100	Hotel Lobby	802.11b	5Mbps.
O1O1	Car Park	Bluetooth	340Kpsecond.
O110	University Campus		
O111	Conference Room		
1OOO			
1OO1			
1O1O			
1O11			
11OO			
11O1			
111O			
1111			

Figure 4

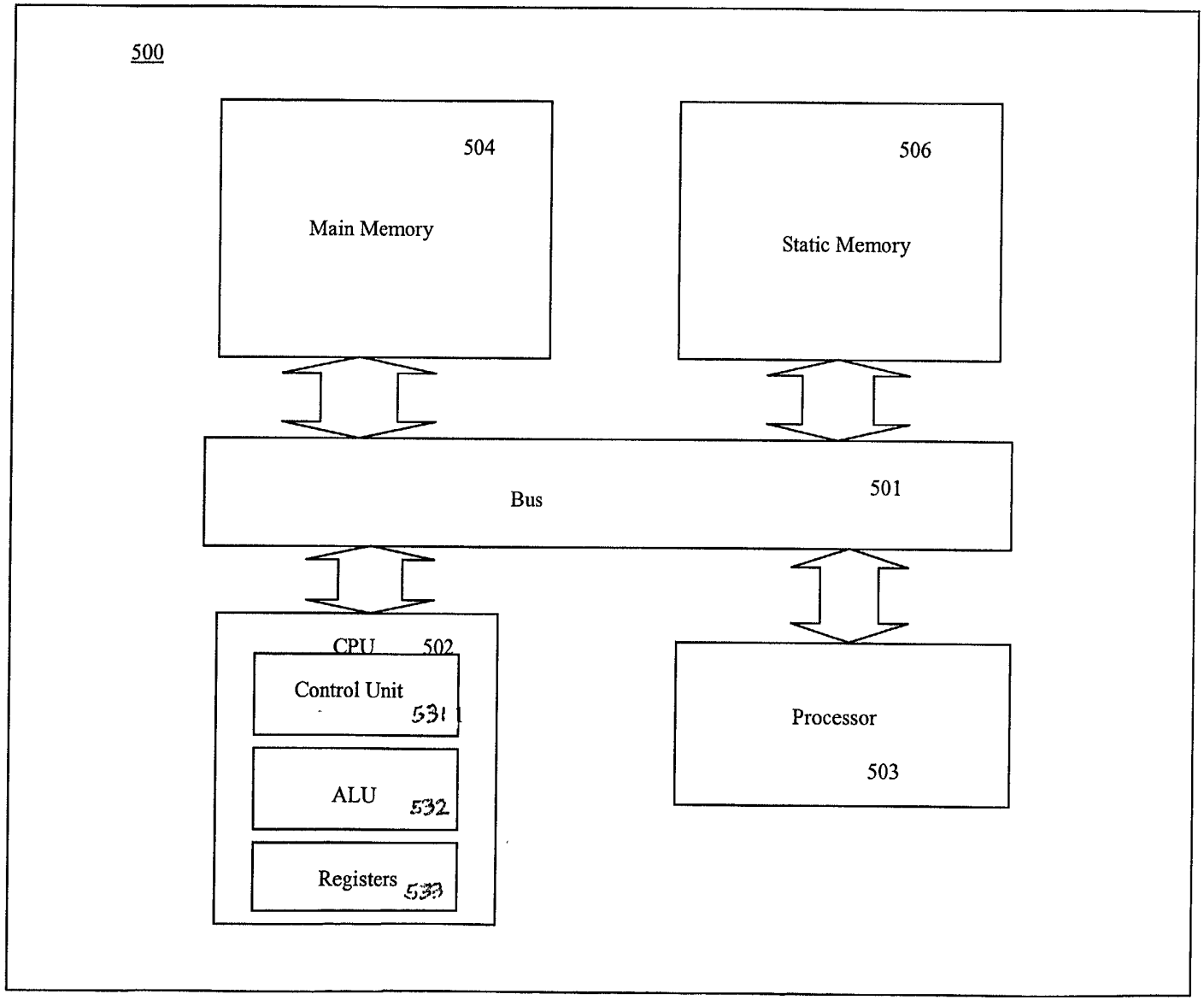
500
504
Main Memory
506
Static Memory
Bus
501
CPU
502
Control Unit
531
ALU
532
Registers
533
Processor
503

Figure 5